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APPLICATION NO.	F	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.
10/565,182	565,182 05/31/2006		Rolf-Juergen Recknagel	101914062	9261
26646	7590	10/25/2006		EXAMINER	
KENYON & KENYON LLP			RAEVIS, ROBERT R		
ONE BROADWAY NEW YORK, NY 10004		0004		ART UNIT	PAPER NUMBER
	,			2856	
				DATE MAIL ED: 10/25/2004	4

Please find below and/or attached an Office communication concerning this application or proceeding.

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	Application No.	RECKNAGEL ET AL.				
Office Action Commons	10/565,182					
Office Action Summary	Examiner	Art Unit				
	Robert R. Raevis	2856				
The MAILING DATE of this communication app Period for Reply	pears on the cover sheet with the c	correspondence address				
A SHORTENED STATUTORY PERIOD FOR REPLY WHICHEVER IS LONGER, FROM THE MAILING DATE - Extensions of time may be available under the provisions of 37 CFR 1.1: after SIX (6) MONTHS from the mailing date of this communication. If NO period for reply is specified above, the maximum statutory period versions after the reply within the set or extended period for reply will, by statute Any reply received by the Office later than three months after the mailing earned patent term adjustment. See 37 CFR 1.704(b).	ATE OF THIS COMMUNICATION 36(a). In no event, however, may a reply be tin will apply and will expire SIX (6) MONTHS from , cause the application to become ABANDONE	N. nely filed the mailing date of this communication. D (35 U.S.C. § 133).				
Status						
1) Responsive to communication(s) filed on 19 So	entember 2006					
3) Since this application is in condition for allowar		osecution as to the merits is				
closed in accordance with the practice under E	•					
Disposition of Claims		•				
4)⊠ Claim(s) <u>11-20</u> is/are pending in the application	n					
4a) Of the above claim(s) <u>12 and 14-20</u> is/are v						
5) Claim(s) is/are allowed.	vialation,					
6)⊠ Claim(s) <u>11 and 13</u> is/are rejected.						
7) Claim(s) is/are objected to.						
8) Claim(s) are subject to restriction and/o	r election requirement					
	r election requirement.	•				
Application Papers						
9)☐ The specification is objected to by the Examine	r.					
10) The drawing(s) filed on is/are: a) □ acc	epted or b) Dobjected to by the	Examiner.				
Applicant may not request that any objection to the	drawing(s) be held in abeyance. See	e 37 CFR 1.85(a).				
Replacement drawing sheet(s) including the correct	ion is required if the drawing(s) is ob	jected to. See 37 CFR 1.121(d).				
11)☐ The oath or declaration is objected to by the Ex	caminer. Note the attached Office	Action or form PTO-152.				
Priority under 35 U.S.C. § 119						
12)☐ Acknowledgment is made of a claim for foreign	priority under 35 U.S.C. & 119(a)-(d) or (f)				
a) All b) Some * c) None of:	priority arraor oo o.o.o. g 110(a	, (d) 51 (1).				
1. ☐ Certified copies of the priority documents have been received.						
· · · · · · · · · · · · · · · · · · ·						
3. Copies of the certified copies of the prior		ed in this National Stage				
application from the International Bureau		-1				
* See the attached detailed Office action for a list	of the certified copies not receive	ea.				
	,					
Attachment(s)	, –					
Notice of References Cited (PTO-892) Notice of Draftsperson's Patent Drawing Review (PTO-948)	4) Interview Summary					
2) Notice of Draftsperson's Patent Drawing Review (PTO-948) 3) Information Disclosure Statement(s) (PTO-1449 or PTO/SB/08) Paper No(s)/Mail Date Notice of Informal Patent Application (PTO-152)						
Paper No(s)/Mail Date <u>1-18-06</u> .	6) Other:					

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DETAILED ACTION

Election of II is acknowledged.

Claim 11 is rejected under 35 U.S.C. 102(b) as being anticipated by Nozoe et al.

As to claim 1, Nozoe et al teach a combination, including: sensor element (40,50,51,52,53,22) for providing an angular velocity signal (i.e. first signal "j" in Figure 28(a)); a low pass filter 23 for receiving the first signal of the sensor element; and arrangement 63 for carrying out a filter correction (Para 134's adjusting of the filter 23) dependent upon a response (on line 24) of the filter to a test signal (on line "j"), which test signal occurs when a second "test signal" (Para 128) is applied to element 40 for the "adjusting operation, without vibrating the sensor" (Para 128). Finally, please note that this apparatus is directed to "a sensor element" (line 3), and thus the body of the claim does not refer back to the "impact sensor"; clearly suggestive that this claim is limited to any sensor.

Claim 11 is rejected under 35 U.S.C. 102(b) as being anticipated by Wu et al.

As to claim 1, Wu et al teach a "Kalman filter" (col. 5, lines 66-67) that receives "positional measurements" (col. 5, line 63), the filter gain matrix of which is "calculated as a function of gyroscope and star tracker white noise, and star tracker spatial noise" (col. 6, lines 38-39). The noise may be deemed to be a test signal. Finally, please note that this apparatus is directed to "a sensor element" (line 3), and thus the body of the

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claim does not refer back to the "impact sensor"; clearly suggestive that this claim is limited to any sensor.

Claim 13 is rejected under 35 U.S.C. 103(a) as being unpatentable over Nozoe et al as applied to claim11 above, and further in view of Watson.

Watson teaches (col. 33, lines 25-53) coupling an "angular velocity sensor" (line 27) with "processor" (line 39) to control a safety restraint system of a vehicle.

As to claim 13, it would have been obvious to employ Nozoe's angular velocity sensor for Watson's "roll angular velocity sensor" (col. 33, line 27) as Watson's requirement for an angular velocity sensor is suggestive of any known working angular velocity sensor. In addition, Nozoe's digital adjusting circuit 63 employs a method of operation (i.e. algorithm) that affects triggering of Watson's restraint system.

Claim 11 is rejected under 35 U.S.C. 103(a) as being unpatentable over Schmid et al.

Schmid et al teach an "acceleration sensor" (col. 4, line 20) that employs at least one sensing element, a "signal filter" (col. 5, line 43) "provided" (col. 5, line 43) "with" (col. 5, line 43) the sensor (and thus either connected to or part of the sensor), and "internal error-checking function" (col. 5, line 34) to check the filter intermittently.

Schmid does not state how the "internal checking function" checks the filter.

As to claim 1, it would have been obvious to employ any known acceleration sensor (i.e. one with strain gauge as a sensing element, or even one with a varying

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capacitor as the sensing element) as those types of sensors are commonly employed to detect vehicular impacts. Such a sensing element would necessarily provide a first signal that would be received by the signal filter. In addition, the internal error-checking function is an electrical test, and thus any output from the filter during testing is necessarily the result of a "test signal" to the filter, even if that "test signal" is nothing more than power/voltage supplied to the filter by the internal checking function itself.

Notes: As to claim 14, isn't the "a sensor element" the same as "the impact sensor" (line 2)? Either the same structure is being claimed twice, or it's unclear what the two sensors correspond to in the written specification and/or drawings.

As to claim 19, what does this step refer to in the written specification and/or drawings? Where are "successive filter corrections" and a "second signal" even in the written specification? Is this claim somehow related to Figure 4 (Blocks 403,404) that develop a trend over time?

Any inquiry concerning this communication or earlier communications from the examiner should be directed to Robert R. Raevis whose telephone number is 571-272-2204. The examiner can normally be reached on Monday to Friday from 5:30am to 3pm.

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, Hezron Williams, can be reached on 571-272-2208. The fax phone number for the organization where this application or proceeding is assigned is 571-273-8300.

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Information regarding the status of an application may be obtained from the Patent Application Information Retrieval (PAIR) system. Status information for published applications may be obtained from either Private PAIR or Public PAIR. Status information for unpublished applications is available through Private PAIR only. For more information about the PAIR system, see http://pair-direct.uspto.gov. Should you have questions on access to the Private PAIR system, contact the Electronic Business Center (EBC) at 866-217-9197 (toll-free).

ROWL